

Claim listing

This claim listing supersedes all prior versions of the claims in this application.

1. (Currently amended) [[A]] The balloon catheter of claim 27, wherein the comprising an inflatable balloon is coaxially disposed about comprised of a catheter member such that, at least one balloon, and an inflation lumen is defined intermediate the catheter member and the inflatable at least one balloon, and wherein the inflatable at least one balloon comprises comprising a inner surface, an outer surface, and a wall thickness therebetween, wherein the wall thickness substantially comprises consists of at least one vacuum deposited metal.

2. (Previously Presented) The catheter according to Claim 1, wherein the at least one metal is selected from the group consisting of titanium, vanadium, aluminum, nickel, tantalum, zirconium, chromium, silver, gold, silicon, magnesium, niobium, scandium, platinum, cobalt, palladium, manganese, molybdenum and alloys of titanium, vanadium, aluminum, nickel, tantalum, zirconium, chromium, silver, gold, silicon, magnesium, niobium, scandium, platinum, cobalt, palladium, manganese and molybdenum.

3. (Previously Presented) The catheter according to Claim 1, wherein the inflatable balloon has a wall thickness between about 0.1 μ m and 25 μ m.

4. (Currently Amended) The catheter according to claim 1, wherein the inflatable balloon deflates under the influence of at least one of a shape memory, superelastic or elastic property of the at least one vacuum deposited metal.

5. (Original) The catheter according to Claim 1, further comprising a catheter body fabricated from a material selected from the group consisting of polymers and metals.

6. (Currently Amended) The balloon catheter according to Claim 1 made by the method comprising the steps of:

vacuum depositing a film of the at least one vacuum deposited metal onto a the generally cylindrical mandrel having a geometry desired for the inflatable balloon to form the inflatable balloon; and

removing the generally cylindrical mandrel from the formed inflatable balloon.

7. (Currently Amended) The balloon catheter of claim 1, further comprising a catheter body member having a second [[an]] inflation lumen and at least one inflation port, wherein the at least one inflation port is in fluid flow communication with the [[an]] inflation lumen of the inflatable balloon.

8-12. (Cancelled)

13. (Currently Amended) The catheter of claim 1, wherein the at least one vacuum deposited metal is comprised of a radiopaque metal.

14. (Cancelled)

15. (Currently Amended) The balloon catheter of claim 1, wherein the inflatable balloon has conductive properties for transmitting energy delivered from an external source.

16-25. (Cancelled)

26. (Currently Amended) The balloon catheter of claim 1 wherein the at least one vacuum deposited metal comprises a single layer of a single vacuum deposited metal, multiple layers of a single vacuum deposited layer, or a multiple layers of multiple vacuum deposited metals.

27. (Currently Amended) A balloon catheter comprising an inflatable balloon substantially comprising ~~consisting essentially of~~ at least one vacuum deposited metal.

28. (Currently Amended) A balloon catheter comprising an inflatable balloon ~~consisting essentially of at least one shape memory metal coaxially disposed about a catheter member such that an inflation lumen is defined intermediate the catheter member and the inflatable balloon, and wherein the inflatable balloon comprises a inner surface, an outer surface, and a wall thickness therebetween, wherein the wall thickness substantially comprises at least one shape memory metal.~~